

CLAIMS

What is claimed is:

1. A vehicle intake manifold assembly comprising:
a plenum; and
a deformable member within said plenum, said deformable member adjustable in
volume to change the volume within said plenum.
2. The vehicle intake manifold assembly as recited in claim 1, wherein said
deformable member comprises a bellows.
3. The vehicle intake manifold assembly as recited in claim 1, further comprising
a resilient member mounted between said plenum and said deformable member.
4. The vehicle intake manifold assembly as recited in claim 3, wherein said
resilient member is mounted within said deformable member.
5. The vehicle intake manifold assembly as recited in claim 1, further comprising
an aperture which communicates said deformable member with atmospheric pressure.

6. A method of adjusting a volume within a vehicle intake manifold assembly comprising the steps of:

- (1) communicating a plenum volume with an engine pressure; and
- (2) communicating a deformable member within the plenum with an atmospheric pressure such that a differential pressure therebetween varies the volume of the deformable member which respectively varies the volume within the plenum.

7. A method as recited in claim 6, further comprising the step of: resiliently mounting the deformable member within the plenum.

8. A method as recited in claim 6, further comprising the step of: resiliently mounting the deformable member within the plenum.

9. A method as recited in claim 6, further comprising the step of: moving the plenum along a linear path.

10. A method as recited in claim 6, further comprising the step of: expanding the deformable member against the resilient member in response to the differential pressure being substantially higher than atmospheric pressure..

11. A method as recited in claim 6, further comprising the step of: contracting the deformable member with the resilient member in response to the differential pressure being substantially equivalent to atmospheric pressure.